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NEWS 1			Web Page URLs for STN Seminar Schedule - N. America			
NEWS 2			"Ask CAS" for self-help around the clock			
NEWS 3	May	10	PROUSDDR now available on STN			
NEWS 4	May	19	PROUSDDR: One FREE connect hour, per account, in both May			
			and June 2004			
NEWS 5	May	12	EXTEND option available in structure searching			
NEWS 6	May		Polymer links for the POLYLINK command completed in REGISTRY			
NEWS 7	1	17	FRFULL now available on STN			
NEWS 8	May	27	New UPM (Update Code Maximum) field for more efficient patent			
1777770 0			SDIs in CAplus			
NEWS 9	- 1	27	The appearance cypes scarchapte in REGISTRY			
NEWS 10	_		Explore APOLLIT with free connect time in June 2004			
NEWS 11	Jun	22	STN Patent Forums to be held July 19-22, 2004			
NEWS 12			Additional enzyme-catalyzed reactions added to CASREACT			
NEWS 13	Jun	28	ANTE, AQUALINE, BIOENG, CIVILENG, ENVIROENG, MECHENG,			
			and WATER from CSA now available on STN(R)			
NEWS EXPRESS MARCH 31 CURRENT WINDOWS VERSION IS V7.00A, CURRENT						
		MAC	CINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),			
		ANI	CURRENT DISCOVER FILE IS DATED 26 APRIL 2004			
NEWS HOURS ST			Operating Hours Plus Help Desk Availability			
NEWS INTER		Ger	neral Internet Information			
		Wel	come Banner and News Items			
			ect Dial and Telecommunication Network Access to STN			
			World Wide Web Site (general information)			
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FILE 'HOME' ENTERED AT 11:33:48 ON 06 JUL 2004

=> file hcaplus COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE TOTAL ENTRY SESSION

0.21 0.21

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=> sel rn E1 THROUGH E1 ASSIGNED

=> delete select
DELETE ALL E# DEFINITIONS? (Y)/N:y
ALL E# DEFINITIONS DELETED

=> sel rn E1 THROUGH E10 ASSIGNED

=> file reg
COST IN U.S. DOLLARS

SINCE FILE TOTAL
ENTRY SESSION
5.12 5.33

FULL ESTIMATED COST

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TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

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=> s e1-e10

1 166820-04-8/BI

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(166820-04-8/RN)
              1 166820-06-0/BI
                  (166820-06-0/RN)
              1 167173-85-5/BI
                  (167173-85-5/RN)
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                  (167173-86-6/RN)
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                  (167173-87-7/RN)
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                  (186528-19-8/RN)
             1 186528-21-2/BI
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                  (186528-22-3/RN)
             1 186528-23-4/BI
                  (186528-23-4/RN)
L3
            10 (166820-04-8/BI OR 166820-06-0/BI OR 167173-85-5/BI OR 167173-86
               -6/BI OR 167173-87-7/BI OR 167173-88-8/BI OR 186528-19-8/BI OR
```

=> d scan

L3 10 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN IN 2(5H)-Furanone, 5-methyl-3-(phenylmethyl)-, (5S)- (9CI) MF C12 H12 O2

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1)9

L3 10 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Butanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI)
MF C27 H32 N2 O9

186528-21-2/BI OR 186528-22-3/BI OR 186528-23-4/BI)

Absolute stereochemistry. Currently available stereo shown.

L3 10 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

IN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan7-yl ester (9CI)

MF C26 H30 N2 O9

Absolute stereochemistry. Rotation (+).

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 10 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

IN L-Arabinonic acid, 2,5-dideoxy-2-(phenylmethyl)-, γ-lactone, 3-(2-methylpropanoate) (9CI)

MF C16 H20 O4

Absolute stereochemistry. Rotation (-).

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 10 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

IN Propanoic acid, 2-methyl-, 3-[[(3,4-dimethoxy-2-pyridinyl)carbonyl]amino]6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester,
[3S-(3R*,6R*,7S*,8S*)]- (9CI)

MF C27 H32 N2 O9

Absolute stereochemistry.

L3 10 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

IN 2-Butenoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester, (2E)- (9CI)

MF C27 H30 N2 O9

Absolute stereochemistry. Rotation (+). Double bond geometry as shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 10 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

MF C11 H14 N2 O6

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 10 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

IN L-Arabinonic acid, 2,5-dideoxy-2-(phenylmethyl)-, γ -lactone (9CI)

MF C12 H14 O3

Absolute stereochemistry. Rotation (-).

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 10 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

IN Butanoic acid, 3-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI)

MF C27 H32 N2 O9

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 10 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

IN L-Serine, N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]- (9CI)

MF C10 H12 N2 O6

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> file hcaplus
COST IN U.S. DOLLARS

SINCE FILE

TOTAL

FULL ESTIMATED COST

ENTRY SESSION 3.36 8.69

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=> s 125:109869/dn L4 1 125:109869/DN

=> sel rn E11 THROUGH E14 ASSIGNED

=> delete select DELETE ALL E# DEFINITIONS? (Y)/N:y ALL E# DEFINITIONS DELETED

=> sel rn E1 THROUGH E4 ASSIGNED

=> file reg
COST IN U.S. DOLLARS

SINCE FILE TOTAL
ENTRY SESSION
2.64 11.33

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 11:40:27 ON 06 JUL 2004
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TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

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Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

=> s e1-e4

1 167173-85-5/BI

=> d scan

L5 4 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

IN Butanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI)

MF C27 H32 N2 O9

Absolute stereochemistry. Currently available stereo shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1)3

L5 4 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

IN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI)

MF C26 H30 N2 O9

Absolute stereochemistry. Rotation (+).

$$i\text{-Pr} \longrightarrow 0 \longrightarrow R \longrightarrow 0 \longrightarrow 0$$

$$Me \longrightarrow 0 \longrightarrow 0$$

$$Me \longrightarrow 0 \longrightarrow 0$$

$$Me \longrightarrow 0$$

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 4 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

2-Butenoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester, (2E)- (9CI)

MF C27 H30 N2 O9

Absolute stereochemistry. Rotation (+). Double bond geometry as shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 4 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

IN Butanoic acid, 3-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI)

MF C27 H32 N2 O9

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=>

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=> s 127:217524/dn

L1 1 127:217524/DN

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E1 THROUGH E1 ASSIGNED

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DELETE ALL E# DEFINITIONS? (Y)/N:Y
ALL E# DEFINITIONS DELETED

=> sel rn E1 THROUGH E10 ASSIGNED

=> file reg
COST IN U.S. DOLLARS

SINCE FILE TOTAL
ENTRY SESSION
5.12 5.33

FULL ESTIMATED COST

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Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

=> s e1-e10

1 166820-04-8/BI

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              1 167173-85-5/BI
                  (167173-85-5/RN)
              1 167173-86-6/BI
                  (167173-86-6/RN)
              1 167173-87-7/BI
                  (167173-87-7/RN)
              1 167173-88-8/BI
                  (167173-88-8/RN)
             1 186528-19-8/BI
                  (186528-19-8/RN)
             1 186528-21-2/BI
                 (186528-21-2/RN)
             1 186528-22-3/BI
                  (186528-22-3/RN)
             1 186528-23-4/BI
                  (186528-23-4/RN)
L3
            10 (166820-04-8/BI OR 166820-06-0/BI OR 167173-85-5/BI OR 167173-86
               -6/BI OR 167173-87-7/BI OR 167173-88-8/BI OR 186528-19-8/BI OR
               186528-21-2/BI OR 186528-22-3/BI OR 186528-23-4/BI)
```

=> d scan

L3 10 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN IN 2(5H)-Furanone, 5-methyl-3-(phenylmethyl)-, (5S)- (9CI) MF C12 H12 O2

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1)9

L3 10 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Butanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI)
MF C27 H32 N2 O9

Absolute stereochemistry. Currently available stereo shown.

L3 10 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

IN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI)

MF C26 H30 N2 O9

Absolute stereochemistry. Rotation (+).

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 10 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

IN L-Arabinonic acid, 2,5-dideoxy-2-(phenylmethyl)-, γ -lactone, 3-(2-methylpropanoate) (9CI)

MF C16 H20 O4

Absolute stereochemistry. Rotation (-).

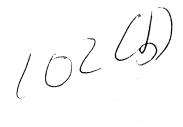
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 10 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

Propanoic acid, 2-methyl-, 3-[[(3,4-dimethoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester, [3S-(3R*,6R*,7S*,8S*)]- (9CI)

MF C27 H32 N2 O9

Absolute stereochemistry.

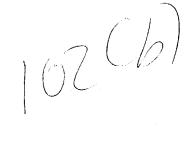


L3 10 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

2-Butenoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-IN pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester, (2E) - (9CI)

MFC27 H30 N2 O9

Absolute stereochemistry. Rotation (+). Double bond geometry as shown.



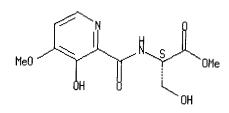
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 REGISTRY COPYRIGHT 2004 ACS on STN 10 ANSWERS

L-Serine, N-[(3-hydroxy-4-methoxy-2-pyridiny1)carbonyl]-, methyl ester IN (9CI)

MF C11 H14 N2 O6

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

REGISTRY COPYRIGHT 2004 ACS on STN L310 ANSWERS

L-Arabinonic acid, 2,5-dideoxy-2-(phenylmethyl)-, γ -lactone (9CI) IN

C12 H14 O3 MF

Absolute stereochemistry. Rotation (-).

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 10 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

IN Butanoic acid, 3-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI)

MF C27 H32 N2 O9

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 10 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

IN L-Serine, N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]- (9CI)

MF C10 H12 N2 O6

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

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NEWS 4	May	19	PROUSDDR: One FREE connect hour, per account, in both May
			and June 2004
NEWS 5	May	12	EXTEND option available in structure searching
NEWS 6	May	12	Polymer links for the POLYLINK command completed in REGISTRY
NEWS 7	May	17	FRFULL now available on STN
NEWS 8	May	27	New UPM (Update Code Maximum) field for more efficient patent
			SDIs in CAplus
NEWS 9	-		CAplus super roles and document types searchable in REGISTRY
NEWS 10	May	27	Explore APOLLIT with free connect time in June 2004
NEWS 11	Jun	22	STN Patent Forums to be held July 19-22, 2004
NEWS 12		28	Additional enzyme-catalyzed reactions added to CASREACT
NEWS 13	Jun	28	ANTE, AQUALINE, BIOENG, CIVILENG, ENVIROENG, MECHENG.
			and WATER from CSA now available on STN(R)
NEWS EXP	DECC	MAE	CU 21 CURRENT MINROWS APPORTON TO ME
***************************************			RCH 31 CURRENT WINDOWS VERSION IS V7.00A, CURRENT
		DML	CINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
NEWS HOURS STN		SUL	CURRENT DISCOVER FILE IS DATED 26 APRIL 2004 Operating Hours Plus Help Desk Availability
		Gen	eral Internet Information
			.come Banner and News Items
			rect Dial and Telecommunication Network Access to STN
NEWS WWW CA		CAS	World Wide Web Site (general information)
		2110	morra wide web offe (Aeneral Information)
Enter NEW	s fol	I Owe	d by the item number of the

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* The files listed above are temporarily unavailable.

FILE 'HOME' ENTERED AT 11:26:30 ON 06 JUL 2004

=> file reg COST IN U.S. DOLLARS

SINCE FILE TOTAL
ENTRY SESSION
0.21 0.21

FULL ESTIMATED COST

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DICTIONARY FILE UPDATES: 5 JUL 2004 HIGHEST RN 704870-92-8

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=> file hcaplus COST IN U.S. DOLLARS

SINCE FILE TOTAL
ENTRY SESSION
2.94 3.15

FULL ESTIMATED COST

FILE 'HCAPLUS' ENTERED AT 11:30:47 ON 06 JUL 2004
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=> sel rn E1 THROUGH E3 ASSIGNED

=> file reg COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 2.56 5.71

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 11:31:00 ON 06 JUL 2004
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STRUCTURE FILE UPDATES: 5 JUL 2004 HIGHEST RN 704870-92-8 DICTIONARY FILE UPDATES: 5 JUL 2004 HIGHEST RN 704870-92-8

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

=> s e1-e3

1 167173-85-5/BI (167173-85-5/RN) 1 194931-82-3/BI (194931-82-3/RN) 1 56-65-5/BI (56-65-5/RN) 3 (167173-85-5/BI OR 194931-82-3/BI OR 56-65-5/BI)

=> d scan

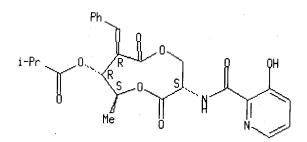
L2

L2 3 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

IN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-2pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan7-yl ester (9CI)

MF C25 H28 N2 O8

Absolute stereochemistry. Rotation (+).



107(6)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1)2

L2 3 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

IN Adenosine 5'-(tetrahydrogen triphosphate) (8CI, 9CI)

MF C10 H16 N5 O13 P3

CI COM

Absolute stereochemistry.

L2 3 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

IN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI)

MF C26 H30 N2 O9

Absolute stereochemistry. Rotation (+).

1626)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

L10 24 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

IN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-2pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan7-yl ester (9CI)

MF C25 H28 N2 O8

Absolute stereochemistry. Rotation (+).

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L10 24 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

IN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[3-(formylamino)-2-hydroxybenzoyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI)

MF C27 H30 N2 O9

Absolute stereochemistry. Rotation (+).

L10 24 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

IN Propanoic acid, 2-methyl-, (3R,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI)

MF C26 H30 N2 O9

Absolute stereochemistry. Rotation (+).

L10 24 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

IN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[(2-hydroxy-3methoxybenzoyl)amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7yl ester (9CI)

MF C27 H31 N O9

Absolute stereochemistry. Rotation (+).

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L10 24 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

IN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI)

MF C26 H30 N2 O9

Absolute stereochemistry. Rotation (+).

$$i\text{-Pr} \longrightarrow 0 \longrightarrow \mathbb{R} \longrightarrow 0 \longrightarrow 0$$

$$\mathbb{R} \longrightarrow 0 \longrightarrow 0$$

$$\mathbb{R} \longrightarrow 0$$

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1)23

L10 24 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

IN Propanoic acid, 2-methyl-, (3R,6S,7R,8R)-3-[[(3-hydroxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI)

Absolute stereochemistry. Rotation (+).

C25 H28 N2 O8

MF

$$\begin{array}{c|c} & Ph & 0 & 0 \\ & Ph & 0 & 0 \\ & R & S & 0 & R \\ & Me & 0 & N \end{array}$$

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	ACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),				
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=> file hcaplus COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 0.21 0.21

FULL ESTIMATED COST

FILE 'HCAPLUS' ENTERED AT 11:33:56 ON 06 JUL 2004
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=> sel rn El THROUGH El ASSIGNED

=> delete select
DELETE ALL E# DEFINITIONS? (Y)/N:y
ALL E# DEFINITIONS DELETED

=> sel rn E1 THROUGH E10 ASSIGNED

=> file reg
COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 5.12 5.33

FULL ESTIMATED COST

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=> s e1-e10

1 166820-04-8/BI

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             1 167173-87-7/BI
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             1 167173-88-8/BI
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             1 186528-23-4/BI
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L3
            10 (166820-04-8/BI OR 166820-06-0/BI OR 167173-85-5/BI OR 167173-86
               -6/BI OR 167173-87-7/BI OR 167173-88-8/BI OR 186528-19-8/BI OR
               186528-21-2/BI OR 186528-22-3/BI OR 186528-23-4/BI)
```

=> d scan

L3 10 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN IN 2(5H)-Furanone, 5-methyl-3-(phenylmethyl)-, (5S)- (9CI) MF C12 H12 O2

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1) 9

L3 10 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Butanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI)
MF C27 H32 N2 O9

Absolute stereochemistry. Currently available stereo shown.

L3 10 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

IN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI)

MF C26 H30 N2 O9

Absolute stereochemistry. Rotation (+).

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 10 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

IN L-Arabinonic acid, 2,5-dideoxy-2-(phenylmethyl)-, γ-lactone,
3-(2-methylpropanoate) (9CI)

MF C16 H20 O4

Absolute stereochemistry. Rotation (-).

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 10 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

IN Propanoic acid, 2-methyl-, 3-[[(3,4-dimethoxy-2-pyridinyl)carbonyl]amino]6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester,
[3S-(3R*,6R*,7S*,8S*)]- (9CI)

MF C27 H32 N2 O9

Absolute stereochemistry.

L3 10 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

IN 2-Butenoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester, (2E)- (9CI)

MF C27 H30 N2 O9

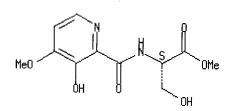
Absolute stereochemistry. Rotation (+). Double bond geometry as shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 10 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

MF C11 H14 N2 O6

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 10 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

IN L-Arabinonic acid, 2,5-dideoxy-2-(phenylmethyl)-, γ -lactone (9CI)

MF C12 H14 O3

Absolute stereochemistry. Rotation (-).

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 10 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

IN Butanoic acid, 3-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan7-yl ester (9CI)

MF C27 H32 N2 O9

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 10 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

IN L-Serine, N-[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]- (9CI)

MF C10 H12 N2 O6

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> file hcaplus
COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION

FULL ESTIMATED COST

3.36 8.69

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=> sel rn E11 THROUGH E14 ASSIGNED

=> delete select
DELETE ALL E# DEFINITIONS? (Y)/N:y
ALL E# DEFINITIONS DELETED

=> sel rn
E1 THROUGH E4 ASSIGNED

=> file reg
COST IN U.S. DOLLARS

SINCE FILE TOTAL
ENTRY SESSION
2.64 11.33

FULL ESTIMATED COST

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=> s e1-e4

1 167173-85-5/BI

=> d scan

L5 4 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

IN Butanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI)

MF C27 H32 N2 O9

Absolute stereochemistry. Currently available stereo shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1)3

L5 4 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

IN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI)

MF C26 H30 N2 O9

Absolute stereochemistry. Rotation (+).

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 4 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

IN 2-Butenoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester, (2E)- (9CI)

MF C27 H30 N2 O9

Absolute stereochemistry. Rotation (+). Double bond geometry as shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 4 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

IN Butanoic acid, 3-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan7-yl ester (9CI)

MF C27 H32 N2 O9

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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=> file hcaplus COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION

12.17

0.84

FULL ESTIMATED COST

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DELETE ALL E# DEFINITIONS? (Y)/N:Y
ALL E# DEFINITIONS DELETED

=> s 123:337552/dn L6 1 123:337552/DN

=> sel rn E1 THROUGH E4 ASSIGNED

=> file reg
COST IN U.S. DOLLARS

SINCE FILE TOTAL
ENTRY SESSION
2.56 14.73

FULL ESTIMATED COST

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=> s e1-e4

1 167173-85-5/BI (167173-85-5/RN) 1 167173-86-6/BI (167173-86-6/RN) 1 167173-87-7/BI (167173-87-7/RN)

1 167173-88-8/BI

(167173-88-8/RN)

L7

4 (167173-85-5/BI OR 167173-86-6/BI OR 167173-87-7/BI OR 167173-88 -8/BI)

=> d scan

L7 4 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

IN Butanoic acid, 3-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan7-yl ester (9CI)

MF C27 H32 N2 O9

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

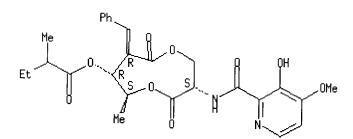
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1)3

L7 4 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

IN Butanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan7-yl ester (9CI)

MF C27 H32 N2 O9

Absolute stereochemistry. Currently available stereo shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 4 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

IN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI)

MF C26 H30 N2 O9

Absolute stereochemistry. Rotation (+).

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 4 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

IN 2-Butenoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester, (2E)- (9CI)

MF C27 H30 N2 O9

Absolute stereochemistry. Rotation (+). Double bond geometry as shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

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M	y 12	EXTEND option available in structure searching
	y 12	Polymer links for the POLYLINK command completed in REGISTRY
	y 17	FRFULL now available on STN
<u>NEWS</u> 8 Ma	y 27	New UPM (Update Code Maximum) field for more efficient patent
		SDIs in CAplus
·	y 27	CAplus super roles and document types searchable in REGISTRY
NEWS 10 Ma	y 27	Explore APOLLIT with free connect time in June 2004
		STN Patent Forums to be held July 19-22, 2004
	n 28	The first pour reactions added to CABREACT
NEWS 13 Ju	n 28	ANTE, AQUALINE, BIOENG, CIVILENG, ENVIROENG, MECHENG,
		and WATER from CSA now available on STN(R)
NEWS EXPRES	S MA	PCH 21 CURDENT WINDOWS VERSION IS NO OVERDOWN
MUNO DATROD		RCH 31 CURRENT WINDOWS VERSION IS V7.00A, CURRENT CINTOSH VERSION IS V6.0c(ENG) AND V6.0jc(JP),
		D CURRENT DISCOVER FILE IS DATED 26 APRIL 2004
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SINCE FILE TOTAL ENTRY SESSION

0.21 0.21

FULL ESTIMATED COST

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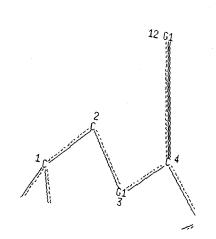
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STRUCTURE UPLOADED => d 11

L1 HAS NO ANSWERS

H 38 C M3

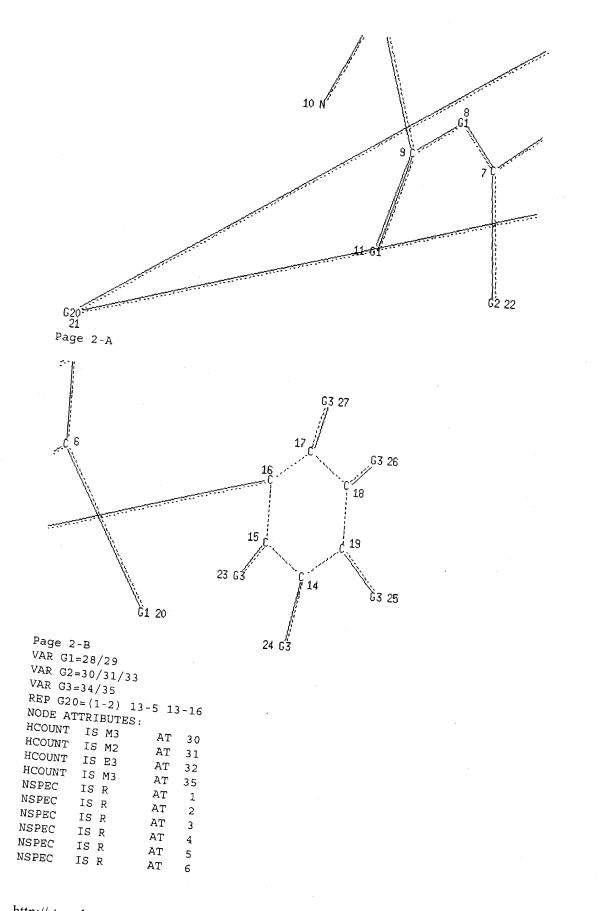
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Page 1-A

C 13

Page 1-B



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               AT
                    9
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               AT 27
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MLEVEL IS CLASS AT 10 13 30 31 32 33 34 35
DEFAULT ECLEVEL IS LIMITED
GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS 35
STEREO ATTRIBUTES: NONE
=> s 11
SAMPLE SEARCH INITIATED 10:46:19 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 282 TO ITERATE
100.0% PROCESSED 282 ITERATIONS
                                                        16 ANSWERS
SEARCH TIME: 00.00.01
FULL FILE PROJECTIONS: ONLINE **COMPLETE**
                     BATCH **COMPLETE**
PROJECTED ITERATIONS:
                      4633 TO 6647
PROJECTED ANSWERS:
                            80 TO
                                     560
L2
           16 SEA SSS SAM L1
=> s 11 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 155.00 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y) /N or END:y
FULL SEARCH INITIATED 10:46:29 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 6350 TO ITERATE
100.0% PROCESSED
                 6350 ITERATIONS
                                                       319 ANSWERS
SEARCH TIME: 00.00.01
L3
          319 SEA SSS FUL L1
=> file hcaplus
```

NSPEC

COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION

FULL ESTIMATED COST

163.40 163.61

FILE 'HCAPLUS' ENTERED AT 10:53:02 ON 06 JUL 2004
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FILE COVERS 1907 - 6 Jul 2004 VOL 141 ISS 2 FILE LAST UPDATED: 5 Jul 2004 (20040705/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 13 L4 22 L3

=> file reg COST IN U.S. DOLLARS

SINCE FILE TOTAL
ENTRY SESSION
2.48 166.09

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 10:53:06 ON 06 JUL 2004
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Property values tagged with IC are from the ${\tt ZIC/VINITI}$ data file provided by ${\tt InfoChem}$.

STRUCTURE FILE UPDATES: 5 JUL 2004 HIGHEST RN 704870-92-8 DICTIONARY FILE UPDATES: 5 JUL 2004 HIGHEST RN 704870-92-8

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

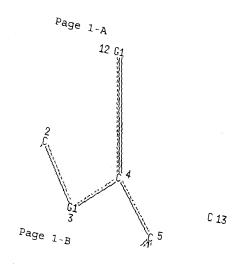
Please note that search-term pricing does apply when conducting SmartSELECT searches.

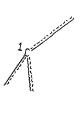
Crossover limits have been increased. See HELP CROSSOVER for details.

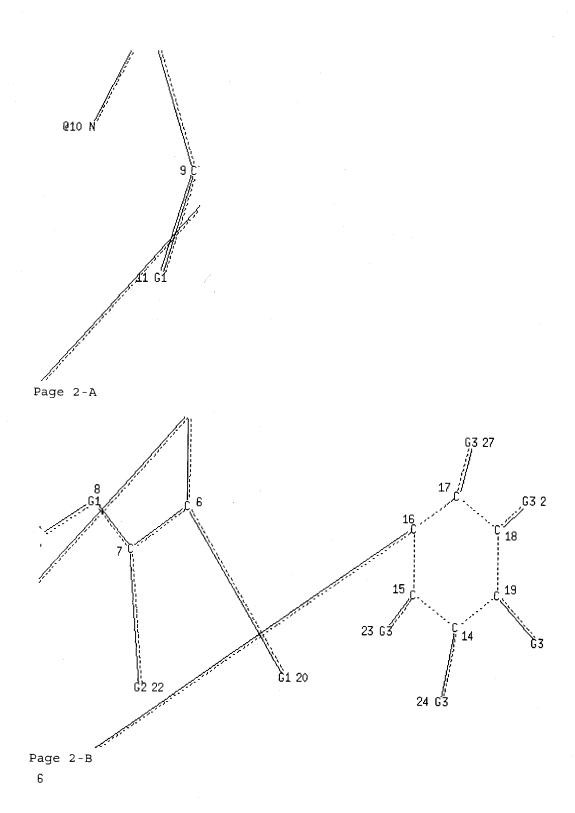
Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

=> L5 STRUCTURE UPLOADED

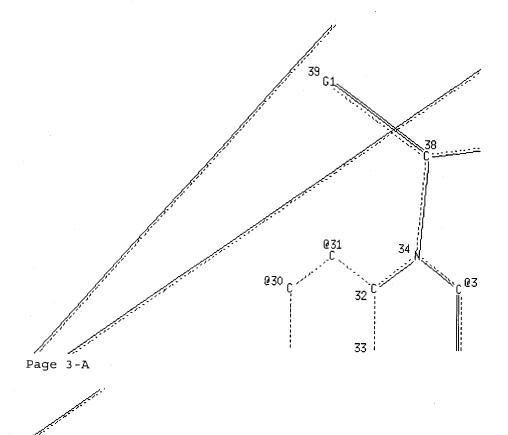
=> d 15







25 Page 2-C



<u>----</u>G1 40

5
Page 3-B

@29 C. C @3

@28 @37

G20

21
Page 4-A
6
Page 4-B
VAR G1=41/42
VAR G2=43/44/46
VAR G3=47/48
REP G20=(1-2) 13-5 13-16
VPA 10-28/29/30/31/35/36/37 S
NODE ATTRIBUTES:

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HCOUNT
          IS M3
                     AT
                         43
 HCOUNT
          IS M2
                     ΑT
                         44
 HCOUNT
          IS E3
                     AT
                         45
 HCOUNT
         IS M3
                     AT
                         48
 NSPEC
          IS R
                     AT
                          1
 NSPEC
       IS R
                     AT
                          2
         IS R
 NSPEC
                     AT
                          3
         IS R
 NSPEC
                     AT
                          4
 NSPEC
          IS R
                     ΑT
                          5
 NSPEC
         IS R
                     AT
                          6
NSPEC
         IS R
                     AT
                          7
NSPEC
         IS R
                     ΑT
                          8
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         IS R
                     ΑT
                          9
NSPEC
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                    AT
                         10
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         IS C
                    AT
                         11
NSPEC
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                    ΑT
                         12
NSPEC
         IS C
                    AT
                         13
NSPEC
         IS R
                    AT
                         14
NSPEC
         IS R
                    AT
                         15
NSPEC
         IS R
                    AT
                         16
NSPEC
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                    AT
                         17
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                    AT
                         18
NSPEC
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                    ΑT
                         19
NSPEC
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                    AT
                         21
NSPEC
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                    AT
                         22
NSPEC
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                    AT
                         23
NSPEC
         IS C
                    ΑT
                         24
NSPEC
         IS C
                    ΑT
                         25
NSPEC
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                    ΑT
                         26
NSPEC
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NSPEC
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NSPEC
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NSPEC
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NSPEC
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                    AT
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NSPEC
         IS R
                    AT
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NSPEC
         IS R
                    AT
                        37
NSPEC
         IS C
                    AT
                        38
NSPEC
         IS C
                    AT
                        39
NSPEC
         IS C
                    AT
                        40
DEFAULT MLEVEL IS ATOM
                   ΑT
MLEVEL
        IS CLASS
                        10 13 38 43 44 45 46 47 48
DEFAULT ECLEVEL IS LIMITED
GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS
STEREO ATTRIBUTES: NONE
SAMPLE SEARCH INITIATED 10:56:28 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -
                                          0 TO ITERATE
100.0% PROCESSED
                         0 ITERATIONS
                                                                     0 ANSWERS
```

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 0 TO

0 PROJECTED ANSWERS: O TO

0 SEA SSS SAM L5

=> s 15 full

THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 155.00 U.S. DOLLARS DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y) /N or END:y FULL SEARCH INITIATED 10:56:34 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED -8 TO ITERATE

100.0% PROCESSED

8 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

0 SEA SSS FUL L5

=> file hcaplus

COST IN U.S. DOLLARS

SINCE FILE TOTAL

ENTRY SESSION 157.52 323.61

FULL ESTIMATED COST

FILE 'HCAPLUS' ENTERED AT 10:56:36 ON 06 JUL 2004 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

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FILE COVERS 1907 - 6 Jul 2004 VOL 141 ISS 2 FILE LAST UPDATED: 5 Jul 2004 (20040705/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d his

(FILE 'HOME' ENTERED AT 10:40:39 ON 06 JUL 2004)

FILE 'REGISTRY' ENTERED AT 10:40:49 ON 06 JUL 2004

L1STRUCTURE UPLOADED

 L_2 16 S L1

L3 319 S L1 FULL

FILE 'HCAPLUS' ENTERED AT 10:53:02 ON 06 JUL 2004 22 S L3 L4

```
L6
              0 S L5
L7
              0 S L5 FULL
     FILE 'HCAPLUS' ENTERED AT 10:56:36 ON 06 JUL 2004
=> s 14 and sakanaka, o?/au
            23 SAKANAKA, O?/AU
             3 L4 AND SAKANAKA, O?/AU
=> d 18, ibib abs fhitstr, 1-3
     ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN
            Citina
    Full
          References
ACCESSION NUMBER:
                         1999:511149 HCAPLUS
DOCUMENT NUMBER:
                         131:129825
TITLE:
                         Novel antifungal compounds and process for producing
                         the same
INVENTOR(S):
                         Sakanaka, Osamu; Teraoka, Takeshi; Mitomo, Koichi;
                         Tamura, Takayoshi; Murai, Yasushi; Iinuma, Katsuharu;
                         Kuzuhara, Kikuko; Mikoshiba, Haruki; Taniguchi, Makoto
PATENT ASSIGNEE(S):
                        Meiji Seika Kaisha, Ltd., Japan
SOURCE:
                        PCT Int. Appl., 92 pp.
                        CODEN: PIXXD2
DOCUMENT TYPE:
                        Patent
LANGUAGE:
                        Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:
                 KIND DATE
     PATENT NO.
                                         APPLICATION NO. DATE
                           -----
                                          -----
     WO 9940081 A1 19990812 WO 1999-JP541
                                                          19990208
         W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
            DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP,
            KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN,
            MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM,
            TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU,
            TJ, TM
        RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES,
            FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,
            CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
     CA 2319807
                    AA 19990812
                                        CA 1999-2319807 19990208
     AU 9924398
                     A1
                           19990823
                                         AU 1999-24398
                                                          19990208
    AU 751098
                      B2
                           20020808
     EP 1054011
                     A1
                           20001122
                                         EP 1999-903901
                                                          19990208
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
            IE, FI
    NZ 506249
                           20030429
                      Α
                                          NZ 1999-506249
                                                          19990208
PRIORITY APPLN. INFO.:
                                       JP 1998-26257
                                                       A 19980206
                                       WO 1999-JP541
                                                       W 19990208
OTHER SOURCE(S): MARPAT 131:129825
```

FILE 'REGISTRY' ENTERED AT 10:53:06 ON 06 JUL 2004

STRUCTURE UPLOADED

 L_5

AB The title compds. [I; R1 = iso-Bu, tigloyl, isovaleryl, 2-methylbutanoyl; R2 = H, arom. acyl, protecting group such substituted benzoyl, substituted nicotinoyl; R3 = H, nitro, amino, acylamino, N,N-dialkylamino; with provisos] are prepd. Thus, UK-2A in CH2Cl2 contg. pyridine and PCl5 was refluxed for 1.5 h, the reaction mixt. was allowed to cool and then reacted with methanol for 15 h to give (2R,3R,4S,7S)-7-amino-2-benzyl-5,9dioxa-3-isobutyryloxy-4-methyl-1,6-cyclononanedione. In an antifungal test, (2R, 3R, 4S, 7S) -7-(2-hydroxynicotinylamino) -2-benzyl-5, 9-dioxa-3isobutyryl-4-methyl-1,6-cyclononanedione (also prepd.) at 0.05 μg showed potency almost double that of UK-2A against Saccharomyces cerevisiae.

Ī

IT 234112-85-7P

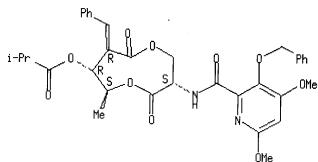
CN

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses) (prepn. of UK-2A derivs. as antifungals)

RN 234112-85-7 HCAPLUS

Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[[4,6-dimethoxy-3-(phenylmethoxy) -2-pyridinyl]carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT:

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN

Citing Text References ACCESSION NUMBER:

INVENTOR (S):

1999:184083 HCAPLUS

130:193104

DOCUMENT NUMBER: TITLE:

Rice blast controlling agents and wheat scab

controlling agents

Teraoka, Takeshi; Kuzuhara, Kikuko; Mikoshiba, Haruki; Matsumoto, Kuniomi; Iinuma, Katsuharu; Futamura, Takafumi; Yasutake, Tetsuya; Sakanaka, Osamu;

Mitomo, Koichi; Taniguchi, Makoto

PATENT ASSIGNEE(S): Meiji Seika Kaisha, Ltd., Japan

SOURCE: PCT Int. Appl., 24 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KI			ND DATE				APPLICATION NO.					DATE				
WO 9911																
W:	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BY,	CA,	CH,	CN,	CU,	CZ,	DE,
	DK,	EE,	ES,	FΙ,	GB,	GE,	GH,	GM,	HR,	HU,	ID,	IL,	IS,	JP,	ΚE,	KG,
	KR,	KZ,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	MD,	MG,	MK,	MN,	MW,	MX,	NO,
	NZ,	PL,	PT,	RO,	RŰ,	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TR,	TT,	UA,
	UG,	US,	UΖ,	VN,	YU,	ZW,	AM,	ΑZ,	BY,	KG,	ΚZ,	MD,	RU,	ТJ,	TM	
RW:	GH,	GM,	KE,	LS,	MW,	SD,	SZ,	ŬG,	ZW,	ΑT,	BE,	CH,	CY,	DE,	DK,	ES,
	FI,	FR,	GB,	GR,	ΙE,	IT,	LU,	MC,	NL,	PT,	SE,	BF,	ВJ,	CF,	CG,	CI,
	CM,															
AU 9888	878		A:	1 :	1999	0322		ΑI	U 199	98-88	3878		19980	0831		
EP 1013	169		A:	1 :	2000	0628		E	P 199	98-94	10634	4	1998	0831		
R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,
	ΙE,															·
PRIORITY APP	LN. I	NFO.	:				<u>.</u>	JP 19	997-2	23365	58	Α	19970	0829		
									998-3	JP387	76	W	19980	0831		
OTHER SOURCE GI	(S):			MARI	PAT :	130:1	1931	04								

These agents contain a compd. represented by formula (I) in which R1 represents alkyl or alkenyl and R2 represents hydrogen or methoxy. The compd. is highly effective in preventing rice blast and wheat scab and is not injurious to the plants. Specific compds. used in the examples are obtained by the method described in a publication presented earlier. Activities of I where R1 = iso-Pr and R2 = H (1), R1 = iso-Pr and R2 = OMe (2), R1 = (Z)-2-butenyl and R2 = OMe (3), R1 = iso-Bu and R2 = OMe (4), and R1 = sec-Bu and R2 = OMe (5), were demonstrated.

IT 167173-87-7

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)

(as rice blast controlling agents and wheat scab controlling agents) RN 167173-87-7 HCAPLUS

CN Butanoic acid, 3-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

REFERENCE COUNT:

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 **HCAPLUS** COPYRIGHT 2004 ACS on STN

3

Full References

ACCESSION NUMBER: DOCUMENT NUMBER:

TITLE:

1999:19692 HCAPLUS

130:168617

UK-2A, B, C and D, novel antifungal antibiotics from Streptomyces sp. 517-02 III. Absolute configuration of an antifungal antibiotic, UK-2A, and consideration of

its conformation

AUTHOR (S):

Shibata, Kozo; Hanafi, Muhammad; Fujii, Jyunko; Sakanaka, Osamu; Iinuma, Katsuharu; Ueki, Masashi;

Taniguchi, Makoto

CORPORATE SOURCE:

Faculty of Science, Osaka City University, Osaka,

558-8585, Japan

SOURCE:

Journal of Antibiotics (1998), 51(12), 1113-1116

CODEN: JANTAJ; ISSN: 0021-8820

Ι

PUBLISHER:

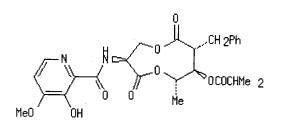
DOCUMENT TYPE:

LANGUAGE:

Japan Antibiotics Research Association

Journal

English



The abs. configuration of UK-2A (I) was detd. by the elucidation of the AB abs. configurations of butanolide II and the serine deriv. III, the products of alk. hydrolysis of I. The abs. configuration of UK-2A was found to be (+)-(2R,3R,4S,7S).

IT 167173-86-6, UK 2B

RL: MSC (Miscellaneous)

Η

(detn. of the abs. configuration of UK-2A, an antifungal antibiotic)

HI

RN167173-86-6 HCAPLUS

2-Butenoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-CN pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-

7-yl ester, (2E)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+). Double bond geometry as shown.

6

REFERENCE COUNT:

THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

L4

(FILE 'HOME' ENTERED AT 10:40:39 ON 06 JUL 2004)

FILE 'REGISTRY' ENTERED AT 10:40:49 ON 06 JUL 2004

L1 STRUCTURE UPLOADED

L2 16 S L1

L3 319 S L1 FULL

FILE 'HCAPLUS' ENTERED AT 10:53:02 ON 06 JUL 2004 22 S L3

FILE 'REGISTRY' ENTERED AT 10:53:06 ON 06 JUL 2004

L5 STRUCTURE UPLOADED

L6 0 S L5

L7 0 S L5 FULL

FILE 'HCAPLUS' ENTERED AT 10:56:36 ON 06 JUL 2004

L8 3 S L4 AND SAKANAKA, O?/AU

=> s 14 not 18

L9 19 L4 NOT L8

=> s 19 and mitomo, k?/au

41 MITOMO, K?/AU

L10 0 L9 AND MITOMO, K?/AU

=> s 19 and tamura, t?/au

4720 TAMURA, T?/AU

L11 0 L9 AND TAMURA, T?/AU

=> s 19 and murai, y?/au

518 MURAI, Y?/AU

L12 0 L9 AND MURAI, Y?/AU

=> s 19 and iinuma, k?/au

335 IINUMA, K?/AU

L13 0 L9 AND IINUMA, K?/AU

=> s 19 and teraoka, t?/au

359 TERAOKA, T?/AU

L14 0 L9 AND TERAOKA, T?/AU

=> s 19 and kuzuhara, k?/au

49 KUZUHARA, K?/AU

· L15

0 L9 AND KUZUHARA, K?/AU

=> s 19 and mikoshiba, h?/au

122 MIKOSHIBA, H?/AU

L16 0 L9 AND MIKOSHIBA, H?/AU

=> s 19 and taniguchi, m?/au

3353 TANIGUCHI, M?/AU

L17 10 L9 AND TANIGUCHI, M?/AU

=> d 117, ibib abs fhitstr, 1-10

L17 ANSWER 1 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Citing Text References

ACCESSION NUMBER:

2002:508203 HCAPLUS

DOCUMENT NUMBER:

137:279002

TITLE:

UK-2A, B, C and D, novel antifungal antibiotics from Streptomyces sp. 517-02 VI (2). Structure-activity

relationships of UK-2A

AUTHOR (S):

Usuki, Yoshinosuke; Goto, Kimihiko; Kiso, Tetsuo; Tani, Kazunori; Ping, Xu; Fujita, Ken-Ichi; Iio,

Hideo; Taniguchi, Makoto

CORPORATE SOURCE:

Graduate School of Science, Osaka City University,

Osaka, 558-8585, Japan

SOURCE:

Journal of Antibiotics (2002), 55(6), 607-610

CODEN: JANTAJ; ISSN: 0021-8820

PUBLISHER:

Japan Antibiotics Research Association

DOCUMENT TYPE:

Journal

LANGUAGE:

English

GΙ

$$\begin{array}{c|c} & & & \\ &$$

AB UK-2A and antimycin A3 analogs, e.g. I, were tested for their respiratory inhibition in bovine heart SMP and their cytotoxic activity was measured against porcine renal proximal tubule cells. The structure activity relationship was examd. as well.

IT 167173-85-5, UK-2A

RL: BSU (Biological study, unclassified); BIOL (Biological study) (respiratory inhibition, cytotoxicity, and structure-activity relationships of UK-2A and antimycin A3 synthetic hybrids)

RN 167173-85-5 HCAPLUS

CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

REFERENCE COUNT:

THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 2 OF 10 L17 HCAPLUS COPYRIGHT 2004 ACS on STN

14

Citing Full Text References ACCESSION NUMBER:

DOCUMENT NUMBER:

TITLE:

AUTHOR (S):

CORPORATE SOURCE:

SOURCE:

LANGUAGE:

PUBLISHER: DOCUMENT TYPE:

GT

2002:262139 HCAPLUS

137:30441

UK-2A, B, C, and D, novel antifungal antibiotics from Streptomyces sp. 517-02: VII. Membrane injury induced by C9-UK-2A, a derivative of UK-2A, in Rhodotorula

mucilaginosa IFO 0001

Tani, Kazunori; Usuki, Yoshinosuke; Motoba, Kazuhiko;

Fujita, Ken-Ichi; Taniguchi, Makoto

Graduate School of Science, Osaka City University,

Osaka, 558-8585, Japan

Journal of Antibiotics (2002), 55(3), 315-321

CODEN: JANTAJ; ISSN: 0021-8820

Japan Antibiotics Research Association

Journal English

UK-2A is a potent antifungal antibiotic and its structure is highly AB similar to that of antimycin A3 (AA). UK-2A and AA inhibit mitochondrial electron transport at complex III. However, the antifungal activities of UK-2A and AA disappear after 48-h treatment. In an attempt to improve the duration of the antifungal activity of UK-2A, several UK-2A derivs. were prepd. by substituting its nine-membered dilactone ring with an n-alkyl or an isoprenyl moiety. Among all the derivs. tested, C9-UK-2A (I) and C10-UK-2A showed the most potent and durable antifungal activities against a strict aerobic yeast, Rhodotorula mucilaginosa IFO 0001. I, in particular, continued to demonstrate its broad-spectrum antifungal activity after 120-h treatment. Therefore, we focused on I to further examine its mode of action against the yeast. Interestingly, I did not inhibit cellular respiration of the cells even at concns. greater than 100 I gradually induced the efflux of potassium ions from the cells. Moreover, I gradually induced the release of glucose from glucose-encapsulating liposomes. The patterns of efflux and release induced by I were not as rapid as those seen with amphotericin B. These results suggest a membrane injury caused by I in R. mucilaginosa IFO 0001. IT 167173-85-5, UK-2A

RL: PAC (Pharmacological activity); BIOL (Biological study) (activity of UK-2A and derivs. against Rhodotorula mucilaginosa) 167173-85-5 HCAPLUS

CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

REFERENCE COUNT:

THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 3 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN L17

15

Full Citing References Text

ACCESSION NUMBER:

DOCUMENT NUMBER:

TITLE:

UK-2A, B, C and D, novel antifungal antibiotics from

Streptomyces sp. 517-02. VI (1). Structure-activity

relationships of UK-2A

135:300904

AUTHOR (S): Usuki, Yoshinosuke; Tani, Kazunori; Fujita, Ken-Ichi;

Taniguchi, Makoto

CORPORATE SOURCE: Graduate School of Science, Osaka City University,

Osaka, 558-8585, Japan

SOURCE: Journal of Antibiotics (2001), 54(7), 600-602

2001:557166 HCAPLUS

CODEN: JANTAJ; ISSN: 0021-8820

PUBLISHER: Japan Antibiotics Research Association

DOCUMENT TYPE: LANGUAGE:

Journal English

The synthesis of UK-2A analogs, where the nine-membered dilactone residue was replaced by several alkyl or isoprenyl moieties, and their biol. effects were studied. All the tested compds., such as UK-2A, AA, and their derivs., did not show any growth inhibitory activity against both Gram-neg. and Gram-pos. bacteria up to 100µg/mL. Salicylic acid moiety or pyridinecarboxylic acid moiety plus a hydrophobic structure is at least necessary for expression of antifungal action. The 9-membered dilactone ring moiety itself is not essential for the antimicrobial activity, and C8-alkyl group is flexible and hydrophobic that makes C8-UK-2A interact the binding domain to prevent yeasts and filamentous fungi from growing. The decrease in activity of isoprenylated UK-2A derivs. was due to a loss of flexibility, which interferes in their taking active conformations. AA had strong cytotoxicity against porcine renal proximal tubule LLC-PK1 cells and other types of cultured cells compared to UK-2A. The inhibitory of UK-2A and AA for the uncoupler stimulated respiration of bovine heart submitochondrial particles was examd. C8-3MeOSA showed comparably high inhibitory activity similar to C8-AA and AA, although its antimicrobial activities were weaker than those were. The mode of action of C8-UK-2A would be different from that of UK-2A.

IT 167173-85-5, UK-2A

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)

(UK-2A, B, C and D, novel antifungal antibiotics from Streptomyces sp.

517-02. VI (1). Structure-activity relationships of UK-2A)

RN 167173-85-5 HCAPLUS

CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

REFERENCE COUNT:

THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 4 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN

11

Full Citing
Text References

ACCESSION NUMBER: 1999:574605 HCAPLUS

DOCUMENT NUMBER: 131:297409

TITLE:

SOURCE:

RN

UK-2A, B, C and D, novel antifungal antibiotics from Streptomyces sp. 517-02 V. Inhibition mechanism of bovine heart mitochondrial cytochrome bcl by the novel

antibiotic UK-2A

AUTHOR(S): Machida, Kiyotaka; Takimoto, Hiroaki; Miyoshi, Hideto;

Taniguchi, Makoto

CORPORATE SOURCE: Department of Biology, Graduate School of Science,

Osaka City University, Osaka, 558-8585, Japan Journal of Antibiotics (1999), 52(8), 748-753

CODEN: JANTAJ; ISSN: 0021-8820

PUBLISHER: Japan Antibiotics Research Association

DOCUMENT TYPE: Journal LANGUAGE: English

AB UK-2A is a potent antifungal antibiotic isolated from Streptomyces sp. 517-02 and its structure is highly similar to that of antimycin A. The authors investigated the inhibition mechanism of bovine heart mitochondrial cytochrome bcl complex by the UK-2A using antimycin A and myxothiazol as the ref. inhibitors of ubiquinol oxidn. (Qo) and ubiquinone redn. (Qi) sites, resp. The inhibitory potency of UK-2A was about 3-fold less than antimycin A. On the basis of the effects of UK-2A on the redn. kinetics of b and c1 hemes, this compd. appeared to be an inhibitor of the Qi site. However, since spectral changes of dithionite-reduced cytochrome b induced by UK-2A binding differed from that of antimycin A, the precise binding manner of UK-2A to the enzyme is not identical to that of antimycin A. It could be concluded that antimycin A binding to cytochrome b is primarily decided by structural specificity of the salicylic acid moiety.

IT 167173-85-5, Antibiotic UK-2A

RL: BAC (Biological activity or effector, except adverse); BOC (Biological occurrence); BSU (Biological study, unclassified); BIOL (Biological study); OCCU (Occurrence)

(UK-2A, B, C and D as novel antifungal antibiotics from Streptomyces) $167\underline{173}$ -85-5 HCAPLUS

CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

REFERENCE COUNT:

THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 5 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN

23

Full Citing
Text References
ACCESSION NUMBER

ACCESSION NUMBER: DOCUMENT NUMBER:

TITLE:

AUTHOR(S):

SOURCE:

1999:368241 HCAPLUS

131:125082

UK-2A, B, C and D, novel antifungal antibiotics from Streptomyces sp. 517-02: IV. Comparative studies of UK-2A with antimycin A3 on cytotoxic activity and reactive oxygen species generation in LLC-PK1 cells

Takimoto, Hiroaki; Machida, Kiyotaka; Ueki, Masashi;

Tanaka, Toshio; Taniguchi, Makoto

CORPORATE SOURCE: Department of Biology, Graduate School of Science,

Osaka City University, Osaka, 558-8585, Japan Journal of Antibiotics (1999), 52(5), 480-484

CODEN: JANTAJ; ISSN: 0021-8820

PUBLISHER: Japan Antibiotics Research Association

DOCUMENT TYPE: Journal LANGUAGE: English

AB UK-2A, a novel antifungal antibiotic, is a structural relative of antimycin A3 (AA) and its mode of action is similar to that of AA which inhibits mitochondrial electron transport at complex III. In spite of their structural resemblance, AA had strong cytotoxicity while UK-2A had little cytotoxicity against LLC-PK1 cells as well as other types of cultured cells. When cells were treated with UK-2A or with AA the intracellular ATP content decreased significantly within 5 min in glucose-free medium to almost the same extent in both cases. Moreover, under the same conditions, UK-2A killed cells at a similar rate to AA. This suggested that UK-2A entered into the cells and, like AA, inhibited mitochondrial electron transport. On the other hand, AA stimulated reactive oxygen species (ROS) prodn. within 5 min even at a low concn. of 1 μM whereas UK-2A did not show such an effect. The difference in the ROS-producing abilities of UK-2A and AA may account for the different cytotoxic effects of the two compds.

IT 167173-85-5, UK-2A

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(comparative studies of UK-2A with antimycin A3 on cytotoxic activity and reactive oxygen species generation in LLC-PK1 cells)

RN <u>167173-85-5</u> HCAPLUS

CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

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    ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2004 ACS on STN
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          References
ACCESSION NUMBER:
                          2003:335078 HCAPLUS
DOCUMENT NUMBER:
                          138:337882
TITLE:
                         Preparation of UK-2A derivatives as agricultural
                         fungicides
INVENTOR(S):
                         Meyer, Kevin Gerald; Rogers, Richard Brewer; Yao,
                         Chenglin; Niyaz, Normohammed Mohamed; Adamski Butz,
                         Jenifer Lynn; Nader, Bassam Salim
PATENT ASSIGNEE(S):
                         Dow Agrosciences Llc Patent Department, USA
SOURCE:
                         PCT Int. Appl., 39 pp.
                         CODEN: PIXXD2
DOCUMENT TYPE:
                         Patent
LANGUAGE:
                         English
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
     PATENT NO.
                      KIND DATE
                                           APPLICATION NO.
                                                            DATE
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     WO 2003035617
                       A2
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                                            WO 2002-US33947 20021023
     WO 2003035617
                      A3 20031113
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             HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT,
             LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT,
             RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG,
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             CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
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PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,

NE, SN, TD, TG

PRIORITY APPLN. INFO.:

US 2001-335814P P 20011023

OTHER SOURCE(S):

MARPAT 138:337882

GΙ

Derivs. of UK-2A of formula I [Z = H, alkoxy, acyl, OC(0)Oalkyl, OC(0)dialkylamino, etc.; Q, M = H, Me, Et, CF3, Ph, vinyl, cyclopropyl; T = O, OC(0), OCO2, S, SC(O), SCO2; G = H, alkyl, alkenyl, alkynyl, cycloalkyl, aryl, heteroaryl] are provided for the treatment of plant fungal diseases. Thus, II was prepd. from UK-2A. The prepd. compds. were tested for control of in vivo whole plant fungal infection.

IT 512192-31-3P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of UK-2A derivs. as agricultural fungicides)

RN 512192-31-3 HCAPLUS

CN 2-Pyridinecarboxamide, 3-[(acetyloxy)methoxy]-4-methoxy-N-[(3S,7R,8R,9S)-9-methyl-8-(2-methyl-2-propenyl)-2,6-dioxo-7-(phenylmethyl)-1,5-dioxonan-3-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L18 ANSWER 2 OF 9 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2003:301046 HCAPLUS

DOCUMENT NUMBER:

138:321054 TITLE:

INVENTOR(S):

Process to produce alkyl-ether derivatives of UK-2A Niyaz, Normohammed Mohamed; Deamicis, Carl Vincent; Rogers, Richard Brewer; Meyer, Kevin Gerald; Dent,

William Hunter, III; Anzeveno, Peter Biagio

PATENT ASSIGNEE(S): SOURCE:

Dow Agrosciences LLC, USA PCT Int. Appl., 20 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

GΙ

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KI			ND DATE				APPLICATION NO.				ο.	DATE				
	-							-			- -					
<u>W</u> O 200	WO 2003031403 A		A	2	20030417			WO 2002-US31848					20021004			
<u>WO 200</u>	O 2003031403 A		A													
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OTHER SOURCE(S):			<u>US 2001-327547P</u> P 20011005 MARPAT 138:321054													

A process is disclosed for the prepn. of allyl-alkyl ether derivs. I [Y = AΒ H, benzyl, Si(alkyl)3, etc.; R3 = H, alk(en/yn)yl, cycloalkyl, (hetero)aryl] of antibiotic UK-2A. The process is comprised of coupling

II with III [E = 0, NR6; R4, R6 = alkyl, aryl] in the presence of a catalyst complex and solvent. For instance II [Y = PhCH2] was coupled to Et methallylcarbonate (dppf, Pd2dba3) to give the corresponding methallyl deriv. of I. Several examples are provided and subsequent sidechain redn. is also described.

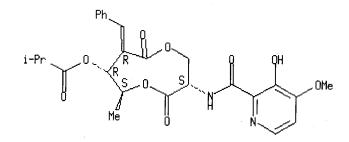
IT 167173-85-5

RL: RCT (Reactant); RACT (Reactant or reagent)
 (palladium catalyzed allylation process to produce alkyl-ether derivs.
 of UK-2A)

RN 167173-85-5 HCAPLUS

CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



L18 ANSWER 3 OF 9 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Citing Text References

ACCESSION NUMBER:

2003:117821 HCAPLUS

DOCUMENT NUMBER:

138:153370

TITLE:

Preparation of UK-2A derivatives via reductive cleavage of the exocyclic ester of UK-2A or its

derivatives

INVENTOR (S):

Meyer, Kevin Gerald; Niyaz, Normohammed Mohamed;

Deamicis, Carl Vincent; Rogers, Richard Brewer

PATENT ASSIGNEE(S):

SOURCE:

Dow Agrosciences LLC, USA PCT Int. Appl., 15 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

LANGUAGE:

Patent

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PA	FENT	NO.		KI	ND	DATE		APPLICATION NO.					Ο.	DATE			
WO 2003011857		A1 20030213				M	0 20	 0 2 - U	 04	20020731							
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		ΙE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	AL,	TR,	BG,	CZ,	EE,	SK		

PRIORITY APPLN. INFO.:

<u>US 2001-308939P</u> P 20010731 WO 2002-US24204 W 20020731

OTHER SOURCE(S):

CASREACT 138:153370; MARPAT 138:153370

GΙ

The present invention discloses a process for the prepn. of UK-2A derivs., such as I [R = H; Y = H, (un)substituted benzyl, CH2OC1-8 alkyl, CH2OC3-8 cycloalkyl, allyl, (un)substituted tetrahydropyranyl, (un)substituted tetrahydrofuranyl, Si(C1-4 alkyl)3, and Si(Ph)x(C1-4 alkyl)3-x where x = 1-3], via reductive cleavage of the exocyclic ester of UK-2A I [R = OCOCH(Me)2; Y = H (II)] or its derivs., such as I [R = COCH(Me)2; Y = H, (un)substituted benzyl, CH2OC1-8 alkyl, CH2OC3-8 cycloalkyl, allyl, (un)substituted tetrahydropyranyl, (un)substituted tetrahydrofuranyl, Si(C1-4 alkyl)3, and Si(Ph)x(C1-4 alkyl)3-x where x = 1-3], in the presence of a reducing agent and in the presence of an aprotic solvent. Thus, II was reacted with benzyl bromide to afford O-benzylated deriv. I [R = OCOCH(Me)2; Y = CH2Ph], which was treated with diisobutylaluminum hydride to afford UK-2A deriv. I [R = H; Y = CH2Ph].

IT 496781-73-8P

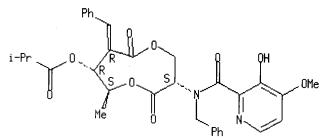
RL: BYP (Byproduct); PREP (Preparation)

(prepn. of UK-2A derivs. via reductive cleavage of the exocyclic ester of UK-2A or its derivs.)

RN 496781-73-8 HCAPLUS

CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl](phenylmethyl)amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT:

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 4 OF 9 HCAPLUS COPYRIGHT 2004 ACS on STN

2

Full Citing
Text References
ACCESSION NUMBER:

2001:152650 HCAPLUS

DOCUMENT NUMBER:

134:207831

TITLE:

Preparation, composition and use of heterocyclic

aromatic amides as fungicides

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INVENTOR(S):
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Ricks, Michael John; Dent, William Hunter, III; Rogers, Richard Brewer; Yao, Chenglin; Nader, Bassam Salim; Miesel, John Louis; Fitzpatrick, Gina Marie; Meyer, Kevin Gerald; Niyaz, Noormohamed Mohamed; Morrison, Irene Mae; Henry, Matthew James; Adamski, Butz Jenifer Lynn; Gajewski, Robert Peter

PATENT ASSIGNEE(S):

SOURCE:

Dow Agrosciences LLC, USA PCT Int. Appl., 200 pp.

CODEN: PIXXD2

DOCUMENT TYPE: LANGUAGE: Patent English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND DATE	
WO 2001014339	A2 20010301	
WO 2001014339	A3 20011115	
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MA, MD,	MG, MK, MN, MW,	MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE
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US 6521622 \ NO	B1 20030218	<u>US 2000-620662</u> 20000720
AU 2000065267	A5 20010319	
US 6355660 ~ NO	B1 20020312	
EP 1204643	A2 20020515	EP 2000-952599 20000804
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EP 1234823	A2 20020828	EP 2002-9583 20000804
EP 1234823	A3 20030618	
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EP 1234827	A3 20030618	
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TR 200200409	T2 20030321	TR 2002-20020040920000804
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JP 2003527324	T2 20030916	JP 2001-518428 20000804
US 2002177578-N	o A1 20021128	US 2001-22413 20011213
US 2003018052-NO		US 2001-22207 20011213
US 2003018012 ~ N	O A1 20030123	US 2001-22511 20011213
US 6706740 → №	B2 20040316	
US 2003022902 JN	O A1 20030130	<u>US 2001-22483</u> 20011213

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US 2003022903 ~ №	A1 200	30130	US 2001-23497		20011213
ZA 2002000435	A 200	30117	ZA 2002-435		20020117
US 2004034025_ NO	A1 200	40219	US 2002-30784	4	20021202
US 2004048864 -NO	A1 200	40311	US 2002-30771	0	20021202
PRIORITY APPLN. INFO.:		US	1999-149977P	P	19990820
		US	1999-150248P	P	19990823
		US	2000-620662	Α	20000720
T.		US	1999-144676P	P	19990720
		EP	2000-952599	Α3	20000804
		US	2000-632930	А3	20000804
		WO	2000-US21523	W	20000804
OTHER SOURCE(S):	MARPAT	134:207831			
GI					

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. [I; wherein X1-X4 independently = O, S, NR1, N, CR2, bond; R1 = H, C1-3 alkyl, C2-3 alkenyl, C2-3 alkynyl, OH, CHF2, C1-4 alkoxy; R2 =H, F, Cl, Br, CN, OH, C1-3 alkyl, C1-3 haloalkyl cyclopropyl, C1-3 alkoxy; Z = O, S, NOH, NOR3; R3 = C1-3 alkyl; A = C1-14 alkyl, C1-14 alkynyl,C1-14 cycloalkyl, aryl, heteroaryl, Q; M = H, Si(t-Bu)Me2, Si(Ph)Me2, SiEt3, CZR4, SO2R5; R4 = H, C1-6 alkyl, C2-6 alkenyl, C2-6 alkynyl; R5 = aryl, heteroaryl, C1-6 alkyl, C2-6 alkenyl, C3-6 alkenyl, C3-6 alkynyl, C3-6 cycloalkyl; X, Y independently = O, S; W = O, CH2, bond; R = C1-8 alkyl, C2-8 alkenyl, C2-8 alkynyl, C3-8 cycloalkyl, aryl, heteroaryl; R11 = H, C1-3 alkyl, C2-5 alkenyl, C2-5 alkynyl; R10 = H, R, OR, OCOR, OCOOR; R8, R9 independently = H, C1-6 alkyl, C2-6 alkenyl; R6, R7 independently = H, C1-6 alkyl, C2-6 alkenyl, C2-5 alkynyl, C3-6 cycloalkyl] are prepd. as fungicides involving application methods of effective usage of title compds. to control fungi, particularly plant pathogens and wood decaying fungi. The invention also encompasses hydrates, salts and complexes thereof. The title compd. II was prepd. and tested as fungicide.

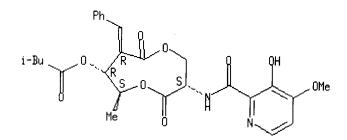
IT 167173-87-7P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. and fungicidal activity of heterocyclic arom. amides)

RN <u>16717</u>3-87-7 HCAPLUS

CN Butanoic acid, 3-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L18 ANSWER 5 OF 9 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Citing Text References

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ACCESSION NUMBER:
                         2001:63978 HCAPLUS
DOCUMENT NUMBER:
                         134:131431
TITLE:
                         Fungicidal heterocyclic aromatic amides and their
                         compositions, methods of use and preparation
INVENTOR (S):
                         Ricks, Michael John; Dent, William Hunter, III;
                         Rogers, Richard Brewer; Yao, Chenglin; Nader, Bassam
                         Salim; Miesel, John Louis; Fitzpatrick, Gina Marie;
                         Meyer, Kevin Gerald; Niyaz, Noormohamed Mohamed;
                         Morrison, Irene Mae; Gajewski, Robert Peter
PATENT ASSIGNEE(S):
                         Dow Agrosciences LLC, USA
SOURCE:
                         PCT Int. Appl., 159 pp.
                         CODEN: PIXXD2
DOCUMENT TYPE:
                         Patent
LANGUAGE:
                         English
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
     PATENT NO.
                    KIND DATE
                                         APPLICATION NO. DATE
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     WO 2001005769
                     A2
                            20010125
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     WO 2001005769
                     A3
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             ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV,
             MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE,
             SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW,
             AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
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                      T2 20030930
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                                          US 2000-632930
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    US 2002177578-AO A1 20021128
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                                                           20011213
    US 2003018052 A1 20030123
                                          US 2001-22207
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                                                           20011213
    US 6706740
                B2 20040316
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                                          US 2001-22483
                                                           20011213
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US 2004034025 Λ 0 A1 20040219
                                          US 2001-23497
                                                           20011213
                                          US 2002-307844
                                                           20021202
    US 2004048864 NO A1 20040311
                                          US 2002-307710
                                                           20021202
PRIORITY APPLN. INFO.:
                                       US 1999-144676P P 19990720
                                       US 1999-149977P P 19990820
                                       US 1999-150248P P 19990823
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 US
 2000-620662
 A3
 20000720

 WO
 2000-US19794
 W
 20000720

 US
 2000-632930
 A3
 20000804

OTHER SOURCE(S): MARPAT 134:131431

GΙ

AΒ Title compds. I [W, X, Y, Z are selected from S, O, NR1, N, CR2 or bond and comprise a 5-6 membered (un) substituted heterocyclic ring; R1 = H, alkyl, alkenyl, alkynyl, OH, acyloxy, alkoxymethyl, CHF2, cyclopropyl, or alkoxy; R2 = H, halo, CN, OH, alkyl, haloalkyl, cyclopropyl, alkoxy, haloalkoxy, etc.; G = O, S or NOR3 where R3 = H or alkyl; A =(un) substituted alkyl, alkenyl, alkynyl, cycloalkyl, unsatd. cycloalkyl, heterocycle, bi or tricyclic ring system which may contain heteroatoms, aryl or heteroaryl, etc.] bearing a hydroxy group adjacent to the amide functionality are prepd. and disclosed as antifungal agents, particularly for plants. Thus, pyridinyl carboxamide II was prepd. via amidation of 3-benzyloxy-6-bromo-4-methoxypyridin-2-carbonyl chloride with 4-(4-trifluoromethylphenoxy)aniline with subsequent deprotection. preferred fungicidal compn. consists of a compd. of formula I with a phytol. acceptable carrier. Activity has been demonstrated against a variety of fungi, e.g., Plasmopara viticola (Downy Mildew of Grape), Phytophthora infestans (Late Blight of Tomato), and Venturia inaequalis (Apple Scab). I is both useful for eradication and prevention of fungal attack.

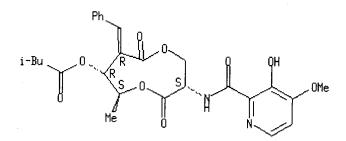
IT 167173-87-7P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. and fungicidal activity of heterocyclic arom. amides)

RN 167173-87-7 HCAPLUS

CN Butanoic acid, 3-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L18 ANSWER 6 OF 9 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Citing Text References

ACCESSION NUMBER: 1999:313243 HCAPLUS

DOCUMENT NUMBER: 131:214101

TITLE: Total synthesis of the antifungal dilactone UK-2A and

analogs and their bioactivities

AUTHOR(S): Kamei, Noriyuki; Shibata, Tetsuo; Inoguchi, Kiyoshi;

Senda, Hisato; Ikari, Takashi; Itoh, Nobuko; Shimano,

Masanao

CORPORATE SOURCE: Department of Medical Chemistry and Molecular Design,

7/6/04

A However Inte

Drug Discovery Research Laboratories, Kaken

Pharmaceutical Co., Ltd., Japan

Tennen Yuki Kagobutsu Toronkai Koen Yoshishu (1998)

40th, 679-684 CODEN: TYKYDS

I

Nippon Kagakkai

Journal Japanese

PUBLISHER:

DOCUMENT TYPE: LANGUAGE:

SOURCE:

GΙ

$$\begin{array}{c} OMe \\ OH \\ OH \\ O \end{array}$$

$$\begin{array}{c} OHe \\ OH$$

er addition (a)

AΒ UK-2A (I) which has recently been isolated from the mycelial cake of Streptomyces sp. 517-02, possesses nine-membered dilactone and a picolinic acid moiety. The plane structure of UK-2A has been elucidated by 1H and 13C NMR analyses and chem. degrdn. studies, but the relative and abs. configurations of the four chiral centers in UK-2A still remain to be detd. UK-2A has strongly inhibited the growth of various kinds of yeasts and filamentous fungi, but its cytotoxic activities against several kinds of mammalian cells were very weak. The combination of its interesting mol. architecture and the potent antifungal activity prompted us to launch the total synthesis of UK-2A. The synthesis of UK-2A has been achieved through a 12-step sequence from II in 26% overall yield. The key strategy employed in this approach involves; (1) construction of the three consecutive chiral centers from C2 to C4 based upon the well-established Evans aldol reaction and (2) the nine-membered lactonization. The authors' synthetic route to UK-2A would permit a practical and reliable construction of UK-2A and a variety of its analogs. In order to define the selective cytotoxicities of UK-2A against yeasts and filamentous fungi, UK-2A and its analogs synthesized were subjected to the MIC evaluation and cytotoxic activity examn. compared with the ref. compds., amphotericin B and fluconazole. UK-2A has a broad antifungal spectrum, while its cytotoxicities was considerably weak compared to other substrates. The results of the UK-2A analogs suggested that the basicity of the picolinic acid moiety in UK-2A was essential for the antifungal activities and that the feature of the nine-membered dilactone contributed to the selective cytotoxicities.

IT 167173-85-5P, Antibiotic UK 2A

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(total synthesis of antifungal dilactone UK-2A and analogs and bioactivities)

RN <u>167173-85-5</u> HCAPLUS

CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-

L19 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Citing References Text

ACCESSION NUMBER: 1999:511149 HCAPLUS DOCUMENT NUMBER:

TITLE:

Novel antifungal compounds and process for producing

the same

131:129825

INVENTOR(S):

Sakanaka, Osamu; Teraoka, Takeshi; Mitomo, Koichi; Tamura, Takayoshi; Murai, Yasushi; Iinuma, Katsuharu; Kuzuhara, Kikuko; Mikoshiba, Haruki; Taniguchi, Makoto

PATENT ASSIGNEE(S): Meiji Seika Kaisha, Ltd., Japan

SOURCE:

PCT Int. Appl., 92 pp.

CODEN: PIXXD2

DOCUMENT TYPE: LANGUAGE:

Patent Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT I	KIND	DATE			ON NO.						
WO 99400	081		19990812	2					0208		
			, AZ, BA,								DE.
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			, KZ, LC,								
			, PL, PT,								
			, US, UZ,								
	TJ, TM	,	, 55, 55,	V 2. ,	10, 11	, , , , ,	A0, D	1, 10,	1(2),	Μ,	RO,
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			IE, IT,								
			ML, MR,				JE, D	r, bu,	CF,	CG,	CI,
CD 23198			19990812				210007	1000	0000		
			19990823								
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PRIORITY APPI	N. INFO	.:		9	JP 199 <u>8</u>	-2625	<u>7</u> A	1998	0206		
				1	WO 1999	-JP541	1 W	1999	0208		
OTHER SOURCE	(S):	MAF	RPAT 131:	1298	25						
GI											

AΒ The title compds. [I; R1 = iso-Bu, tigloyl, isovaleryl, 2-methylbutanoyl; R2 = H, arom. acyl, protecting group such substituted benzoyl, substituted nicotinoyl; R3 = H, nitro, amino, acylamino, N,N-dialkylamino; with provisos] are prepd. Thus, UK-2A in CH2Cl2 contg. pyridine and PCl5 was refluxed for 1.5 h, the reaction mixt. was allowed to cool and then reacted with methanol for 15 h to give (2R,3R,4S,7S)-7-amino-2-benzyl-5,9dioxa-3-isobutyryloxy-4-methyl-1,6-cyclononanedione. In an antifungal

Ι

test, (2R,3R,4S,7S)-7-(2-hydroxynicotinylamino)-2-benzyl-5,9-dioxa-3isobutyryl-4-methyl-1,6-cyclononanedione (also prepd.) at 0.05 μg showed potency almost double that of UK-2A against Saccharomyces cerevisiae.

IT 234112-85-7P

CN

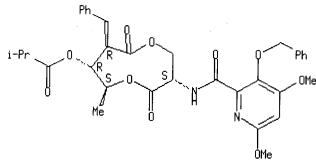
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); IMF (Industrial manufacture); RCT (Reactant); THU (Therapeutic use); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(prepn. of UK-2A derivs. as antifungals)

RN234112-85-7 HCAPLUS

Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[[4,6-dimethoxy-3-(phenylmethoxy) -2-pyridinyl]carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT:

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN

Citing Full Text References

AUTHOR(S):

SOURCE:

ACCESSION NUMBER: 1999:368241 HCAPLUS

DOCUMENT NUMBER: 131:125082

TITLE: UK-2A, B, C and D, novel antifungal antibiotics from

> Streptomyces sp. 517-02: IV. Comparative studies of UK-2A with antimycin A3 on cytotoxic activity and reactive oxygen species generation in LLC-PK1 cells Takimoto, Hiroaki; Machida, Kiyotaka; Ueki, Masashi;

Tanaka, Toshio; Taniguchi, Makoto

Department of Biology, Graduate School of Science, CORPORATE SOURCE:

Osaka City University, Osaka, 558-8585, Japan Journal of Antibiotics (1999), 52(5), 480-484

CODEN: JANTAJ; ISSN: 0021-8820

Japan Antibiotics Research Association PUBLISHER:

DOCUMENT TYPE: Journal

LANGUAGE: English

AΒ UK-2A, a novel antifungal antibiotic, is a structural relative of antimycin A3 (AA) and its mode of action is similar to that of AA which inhibits mitochondrial electron transport at complex III. In spite of their structural resemblance, AA had strong cytotoxicity while UK-2A had little cytotoxicity against LLC-PK1 cells as well as other types of cultured cells. When cells were treated with UK-2A or with AA the intracellular ATP content decreased significantly within 5 min in glucose-free medium to almost the same extent in both cases. Moreover, under the same conditions, UK-2A killed cells at a similar rate to AA. This suggested that UK-2A entered into the cells and, like AA, inhibited

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L12 0 S L9 AND MURAI, Y?/AU
L13 0 S L9 AND IINUMA, K?/AU

L14 0 S L9 AND TERAOKA, T?/AU
L15 0 S L9 AND KUZUHARA, K?/AU

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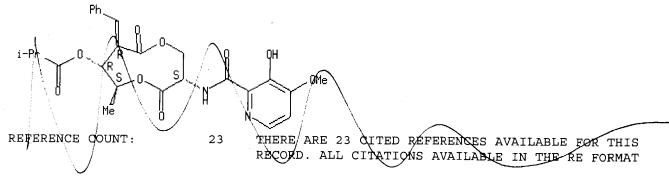
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L17 ANSWER 6 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN

Citing Full Text References

ACCESSION NUMBER:

DOCUMENT NUMBER:

TITLE:

1998:22846 HCAPLUS 128:163891

The mode of action of UK-2A and UK-3A, novel

antifungal antibiotics from Streptomyces sp. 517-02

Ueki, Masashi; Taniguchi, Makoto

CORPORATE SOURCE:

Dep. Biology, Fac. Sci., Osaka City Univ., Osaka, 558,

Japan

SOURCE:

Journal of Antibiotics (1997), 50(12), 1052-1057

CODEN: JANTAJ; ISSN: 0021-8820

PUBLISHER:

AUTHOR(S):

Japan Antibiotics Research Association Journal

DOCUMENT TYPE: LANGUAGE:

English

UK-2A and UK-3A are structural relatives of antimycins, which were AB isolated as antifungal antibiotics with little cytotoxicity that demonstrated inhibition of respiratory activity. They halve the cellular respiration of yeast within 4~5 min and the intracellular ATP content within 2-5 min. They inhibited the yeast mitochondrial respiration using β -hydroxybutyrate and succinate as a respiratory substrate, but no inhibition was obsd. using ascorbate-reduced tetra-Me p-phenylenediamine as the substrate. The site of respiratory inhibition of UK-2A and UK-3A was thought to be the cytochrome bcl complex in the mitochondrial electron transport chain of yeast cells. They also inhibited the mitochondrial respiration of rat liver. Intact animal cells might have some system to defend themselves from the actions of UK-2A and UK-3A.

IT **167173-85-5**, UK-2A

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(mechanism of antifungal action of UK-2A and UK-3A)

RN167173-85-5 HCAPLUS

CNPropanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

102Cb

REFERENCE COUNT:

16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

HCAPLUS COPYRIGHT 2004 ACS on STN ANSWER 7 OF 10

Citing Reterences

ACCESSION NUMBER: DOCUMENT NUMBER:

CORPORATE SOURCE:

AUTHOR (S):

PUBLISHER:

LANGUAGE:

DOCUMENT TYPE:

TITLE:

1997:504110 HCAPLUS

127:217524

UK-3A, a novel antifungal antibiotic from Streptomyces

sp. 517-02: fermentation, isolation, structural

elucidation and biological properties

Ueki, Masashi; Kusumoto, Atsushi; Hanafi, Muhammad;

Shibata, Kozo; Tanaka, Toshio; Taniguchi, Makoto

Faculty of Science, Osaka City University, Osaka, 558,

Japan

SOURCE: Journal of Antibiotics (1997), 50(7), 551-555

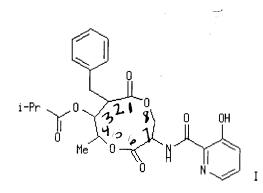
CODEN: JANTAJ; ISSN: 0021-8820

Japan Antibiotics Research Association

Journal

English

GT



AΒ A novel antifungal antibiotic, UK-3A (I), was obtained from the mycelial cake of Streptomyces sp. 517-02. I was very similar in structure to UK-2A, a structural relative of antimycin A. The antifungal spectrum of I was relatively broad (MICs for yeasts and filamentous fungi: 1.56~6.25 and 0.39~1.56 μ g/mL, resp.). The cytotoxic

activity of I was weak (IC50: $18~100 \mu g/mL$).

IT 194931-82-3P, Antibiotic UK 3A

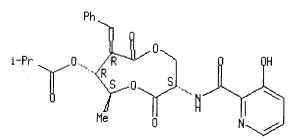
RL: BAC (Biological activity or effector, except adverse); BOC (Biological occurrence); BPN (Biosynthetic preparation); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)

(UK-3A is a novel antifungal antibiotic from Streptomyces)

194931-82-3 HCAPLUS RN

CNPropanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-2pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



162 Cb

REFERENCE COUNT:

THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 8 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN

7

Citina Full

ACCESSION NUMBER: 1997:16443 HCAPLUS

DOCUMENT NUMBER: 126:144017

TITLE:

UK-2A, B, C and D, novel antifungal antibiotics from Streptomyces sp. 517-02. II. Structural elucidation

AUTHOR (S): Hanafi, Muhammad; Shibata, Kozo; Ueki, Masashi;

Taniguchi, Makoto

CORPORATE SOURCE: Fac. Sci., Osaka City Univ., Osaka, 558, Japan

SOURCE: Journal of Antibiotics (1996), 49(12), 1226-1231

CODEN: JANTAJ; ISSN: 0021-8820

PUBLISHER: Japan Antibiotics Research Association

DOCUMENT TYPE: Journal LANGUAGE: English

UK-2A, UK-2B, UK-2C and UK-2D, novel antibiotics produced by Streptomyces ΆB sp. 517-02, exhibit strong antifungal activity. The structures were elucidated based on spectral and chem. evidence that these compds. are the derivs. of the nine-membered dilactone formed from serine and 4-hydroxypentanoic acid moiety.

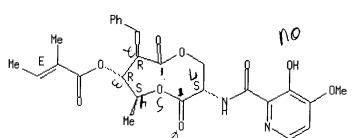
IT 167173-86-6P

RL: PRP (Properties); PUR (Purification or recovery); PREP (Preparation) (structural elucidation of UK-2A, UK-2B, UK-2C and UK-2D, novel antifungal antibiotics from Streptomyces sp. 517-02)

RN167173-86-6 HCAPLUS

CN 2-Butenoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester, (2E) - (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+). Double bond geometry as shown.



more 102 Chi Spenis

THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 9 OF 10 L17HCAPLUS COPYRIGHT 2004 ACS on STN

Citina References ACCESSION NUMBER:

REFERENCE COUNT:

1996:463922 HCAPLUS

DOCUMENT NUMBER:

125:109869

TITLE:

UK-2A, B, C and D, novel antifungal antibiotics from Streptomyces sp. 517-02. I. Fermentation, isolation,

and biological properties

AUTHOR(S):

Ueki, Masahi; Abe, Keiichi; Hanafi, Muhammad; Shibata,

Kozo; Tanaka, Toshio; Taniguchi, Makoto

CORPORATE SOURCE:

SOURCE:

Fac. Science, Osaka City Univ., Osaka, 558, Japan Journal of Antibiotics (1996), 49(7), 639-643

CODEN: JANTAJ; ISSN: 0021-8820

PUBLISHER: DOCUMENT TYPE:

LANGUAGE:

Japan Antibiotics Research Association Journal

English

GΙ

$$RC0.0$$
 $RC0.0$
 $RC0.$

Novel antifungal antibiotics, UK-2A (I), UK-2B (II) and a mixt. of UK-2C ABand UK-2D, were obtained from the mycelial cake of Streptomyces sp. 517-02. All of the UK-2 compds. were similar in structure to antimycin A. The antifungal activities of of UK-2 compds. were as strong as that of antimycin A. However, the UK-2 compds. demonstrated weak cytotoxicity compared to antimycin A.

IT 167173-85-5, UK 2A

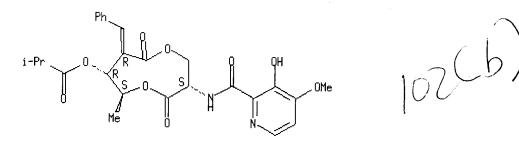
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(UK-2A, B, C and D, novel antifungal antibiotics from Streptomyces sp. 517-02. I. Fermn., isolation, and biol. properties)

RN 167173-85-5 HCAPLUS

CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



L17 ANSWER 10 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Citing References ACCESSION NUMBER:

1995:934118 HCAPLUS

123:337552

DOCUMENT NUMBER: TITLE:

INVENTOR(S):

Fungicides manufacture with Streptoverticillium Taniguchi, Makoto; Shibata, Kozo; Abe, Keiichi; Kodama, Tooru; Uotani, Kazumichi; Oonishi, Yoshitaka PATENT ASSIGNEE(S):

Suntory Ltd., Japan; Meiji Seika Co.; Meiji Seika

Kaisha, Ltd.

SOURCE:

Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE		APPLICATION NO.	DATE
JP 07233165	A2	19950905		JP 1994-26884	19940224
JP 3526602	B2	20040517			
PRIORITY APPLN. INFO.	:		JP	1994-26884	19940224
OTHER SOURCE(S):	MA	RPAT 123:3375	52		
GI					

AB Fungicides (I: R = linear or branched aliph. (un)satd. acyl group) are manufd. by culturing Streptoverticillium sp. SAM2084. Shake-culture of Streptoverticillium sp. SAM2084 for manuf. of four I wherein R = 2-methylpropanoyl (UK-2A), trans-2-methyl-2-butenoyl (UK-2B), 3-methylbutanoyl (UK-2C), and 2-methylbutanoyl (UK-2D) was shown. Also given were the physiol. and morphol. characteristics of the Streptoverticillium sp. SAM2084.

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IT 167173-85-5P, UK 2A

RL: BPN (Biosynthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (fungicides manuf. with Streptoverticillium)

RN 167173-85-5 HCAPLUS

CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

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FILE 'REGISTRY' ENTERED AT 10:40:49 ON 06 JUL 2004

pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

REFERENCE COUNT:

THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 9 OF 9 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Citing
Text References

ACCESSION NUMBER:

DOCUMENT NUMBER:

TITLE:

1995:671786 HCAPLUS

123:164736

The structures of UK-1 and UK-2, novel antibiotics

from Streptomyces sp. 517-02

AUTHOR(S):

Hanafi, O Muhammad; Kozo, Shibata; Masaru, Kashiwada;

Masashi, Ueki; Makoto, Taniguchi

CORPORATE SOURCE:

SOURCE:

Faculty Science, Osaka City University, Japan

Tennen Yuki Kagobutsu Toronkai Koen Yoshishu (1994),

36th, 728-35 CODEN: TYKYDS Nippon Kagakkai

PUBLISHER:

DOCUMENT TYPE:

LANGUAGE:

Journal Japanese

The mycelial cake was extd. with acetone, and filtered. The filtrate was concd. to give aq. soln., which was extd. with chloroform. Org. layer was concd. to yield an oily material, followed by purifn. on silica gel column chromatog. to give crude UK-1 and UK-2. Finally, the recrystn. of each fractions from MeOH, afforded UK-1 and UK-2. UK-1 (I), a novel metabolite, demonstrated potent cytotoxic activity against B16, Hela and P388 cells, and UK-2, novel complex of antibiotics, exhibited strong antifungal activity. Methylation of UK-1 by CH3I and anhyd. K2CO3 in dry acetone gave monomethyl ether deriv., Me-UK-1. Alk. hydrolysis of UK-1 afforded carboxylic acid deriv., DeMe-UK-1. Partial structures, A, B, and C were elucidated by COSY, and COLOC expts. Based on these results, the structure of UK-1 was deduced to be a novel benzoxazole dimer deriv. UK-2, novel metabolite contg. complex of antibiotics with strong antifungal activity, was purified by reverse phase HPLC, to give UK-2A, B, C and D. From NMR and mass spectral data, the structures of UK-2A, B, C $\,$ and D were established as isobutyrate, tiglate, isovalerate, and 2-methylbutyrate of nine membered dilactone skeleton, resp. Based on the result of synthesis of hydrolysis products, the abs. configuration of UK-2 was identified.

IT 167173-85-5, Antibiotic UK 2A

RL: PRP (Properties)

(structures of UK-1 and UK-2, novel antibiotics from Streptomyces sp. 517-02)

RN <u>167173-85-5</u> HCAPLUS

CN Propanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2-pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

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FILE 'REGISTRY' ENTERED AT 10:40:49 ON 06 JUL 2004
L1 STRUCTURE UPLOADED
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L2 16 S L1

L3 319 S L1 FULL

FILE 'HCAPLUS' ENTERED AT 10:53:02 ON 06 JUL 2004

L4 22 S L3

FILE 'REGISTRY' ENTERED AT 10:53:06 ON 06 JUL 2004

L5 STRUCTURE UPLOADED

L6 0 S L5

L7 0 S L5 FULL

FILE 'HCAPLUS' ENTERED AT 10:56:36 ON 06 JUL 2004

L8 3 S L4 AND SAKANAKA, O?/AU

L9 19 S L4 NOT L8

L10 0 S L9 AND MITOMO, K?/AU

L11 0 S L9 AND TAMURA, T?/AU

L12 0 S L9 AND MURAI, Y?/AU

L13 0 S L9 AND IINUMA, K?/AU

L14 0 S L9 AND TERAOKA, T?/AU

L15 0 S L9 AND KUZUHARA, K?/AU

L16 0 S L9 AND MIKOSHIBA, H?/AU

L17 10 S L9 AND TANIGUCHI, M?/AU

L18 9 S L9 NOT L17

=> s 13/thu

22 L3

603555 THU/RL

L19 3 L3/THU

(L3 (L) THU/RL)

=> s 119 and fungal?

42130 FUNGAL?

L20 0 L19 AND FUNGAL?

=> s 119 and pyricular?

1717 PYRICULAR?

L21 0 L19 AND PYRICULAR?

=> d 119, ibib abs fhitstr, 1-3

mitochondrial electron transport. On the other hand, AA stimulated reactive oxygen species (ROS) prodn. within 5 min even at a low concn. of 1 μM whereas UK-2A did not show such an effect. The difference in the ROS-producing abilities of UK-2A and AA may account for the different cytotoxic effects of the two compds.

IT 167173-85-5, UK-2A

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(comparative studies of UK-2A with antimycin A3 on cytotoxic activity and reactive oxygen species generation in LLC-PK1 cells)

RN167173-85-5 HCAPLUS

CNPropanoic acid, 2-methyl-, (3S,6S,7R,8R)-3-[[(3-hydroxy-4-methoxy-2pyridinyl)carbonyl]amino]-6-methyl-4,9-dioxo-8-(phenylmethyl)-1,5-dioxonan-7-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

REFERENCE COUNT:

23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN L19

Citina Full Text References

ACCESSION NUMBER: 1995:934118 HCAPLUS

DOCUMENT NUMBER:

TITLE:

Fungicides manufacture with Streptoverticillium INVENTOR (S): Taniguchi, Makoto; Shibata, Kozo; Abe, Keiichi;

Kodama, Tooru; Uotani, Kazumichi; Oonishi, Yoshitaka

PATENT ASSIGNEE(S): Suntory Ltd., Japan; Meiji Seika Co.; Meiji Seika

Kaisha, Ltd.

123:337552

SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

LANGUAGE:

Patent Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE		APPLICATION NO.	DATE
JP 07233165	A2	19950905		JP 1994-26884	19940224
JP 3526602	B2	20040517			
PRIORITY APPLN. INFO.	:	<u>.</u>	JP	1994-26884	19940224
OTHER SOURCE(S):	MA	RPAT 123:3375	52		

GΙ

AB Fungicides (I: R = linear or branched aliph. (un)satd. acyl group) are manufd. by culturing Streptoverticillium sp. SAM2084. Shake-culture of Streptoverticillium sp. SAM2084 for manuf. of four I wherein R = 2-methylpropanoyl (UK-2A), trans-2-methyl-2-butenoyl (UK-2B), 3-methylbutanoyl (UK-2C), and 2-methylbutanoyl (UK-2D) was shown. Also given were the physiol. and morphol. characteristics of the Streptoverticillium sp. SAM2084.

I

IT 167173-85-5P, UK 2A

RL: BPN (Biosynthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (fungicides manuf. with Streptoverticillium)

RN 167173-85-5 HCAPLUS

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Absolute stereochemistry. Rotation (+).

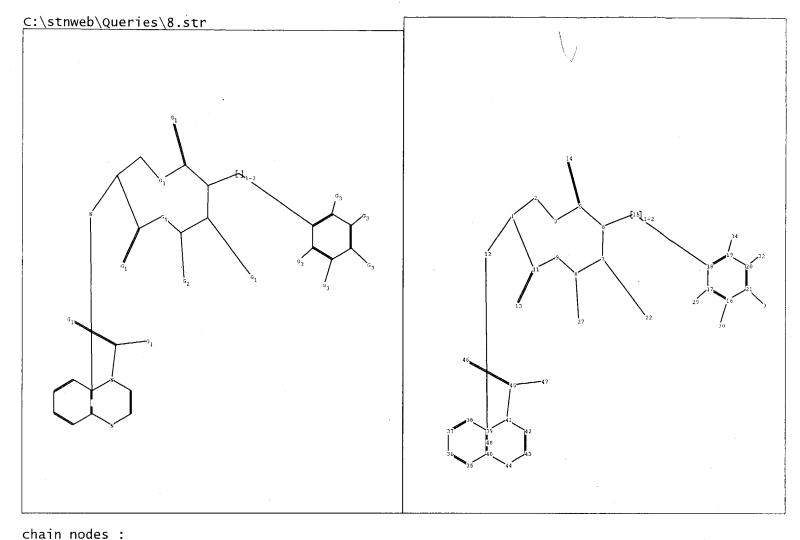


=> file caold COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION FULL ESTIMATED COST 147.23 470.84 DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL ENTRY SESSION CA SUBSCRIBER PRICE -18.38 -18.38

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FILE COVERS 1907-1966 FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.



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12 13 14 15 22 27
                          29
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                                             45
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ring nodes :
    1 2 3 5 6 7
                          11
                              16
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                                                            37
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                                                                    39
                                                                        40
                                                                          41 42 43
chain bonds :
   1-12 5-14 6-15 7-22 8-27 11-13 15-18 16-30 17-29 19-34 20-32 45-46 45-47
                                                                       21-31 41-45
ring bonds:
    1-2 1-11 2-3 3-5 5-6 6-7 7-8 8-9 9-11 16-17 16-21 17-18 18-19 19-20 20-21
    35-36 35-40 36-37 37-38 38-39 39-40 39-41 40-44 41-42 42-43
exact/norm bonds :
   1-2 1-11 1-12 2-3 3-5 5-6 5-14 6-7 6-15 7-8 7-22 8-9 8-27 9-11
                                                                            11-13 15-18
    16-30 17-29 19-34 20-32 21-31 39-41 40-44 41-42 41-45 42-43 43-44
                                                                            45-46
normalized bonds:
16-17 16-21 17-18
                      18-19 19-20 20-21 35-36 35-40 36-37 37-38 38-39
isolated ring systems :
   containing 1 : 16 : 35 :
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G1:0,S

G2:CH3,Et,H

G3:H,CH3

Match level:
1:Atom 2:Atom 3:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:CLASS 11:Atom 12:CLASS
13:Atom 14:Atom 15:CLASS 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom 22:Atom
27:CLASS 29:CLASS 30:CLASS 31:CLASS 32:CLASS 34:CLASS 35:Atom 36:Atom 37:Atom
38:Atom 39:Atom 40:Atom 41:Atom 42:Atom 43:Atom 44:Atom 45:CLASS 46:Atom 47:Atom
48:CLASS